List of USAF Scientific Advisory Board Studies (1945-present)

	List of USAF Scientific Advisory Board Studies (1945-present)
Year	Study Title
0040	24 of Continue Training and Education Tasknalessics
2019	21st Century Training and Education Technologies
	Fidelity of Modeling Simulation & Analysis to Support Air Force Decision Making
	Multi-Source Data Fusion for Target Location and Identification
	M
2018	Maintaining Technology Superiority for the United States Air Force
	Technologies for Enabling Resilient Command and Control
2017	Nuclear Surety and Certification for Emerging Systems
2017	Technology Viablility to support Penetrating Counterair Capability
	Adapting Air Force Test and Evaluation to Emerging System Needs
	Adapting All 1 Gree Test and Evaluation to Emerging System Needs
2016	Airspace Surveillance to Support A2/AD Operations
	Data Analytics to Support Operational Decision Making
	Directed Energy Maturity for Airborne Applications (Quick Look)
	Responding to Uncertain or Adaptive Threats in Electronic Warfare
2015	Cyber Vulnerabilities of Embedded Systems on Air and Space Systems
	Enhanced Utility of Unmanned Air Vehicles in Contested and Denied Environments
	Utility of Quantum Systems for the Air Force
0044	Defence of USAE Femiliary Pages
2014	Defense of USAF Forward Bases
	Nuclear Command, Control, and Communications
	Technology Readiness for Hypersonic Vehicles
	Combating Sexual Assault
2013	Airborne Networking and Communications for Contested Environments
2010	Electro-Optical/Infrared (EO/IR) and Laser Threat Warning and Countermeasures
	Microsatellite Mission Applications
	who osatelike wission Applications
2012	Extended Uses of AFSPC Sensors
	Non-traditional ISR for Contested Environments
	Cyber Situational Awareness
2011	Munitions for the 2025+ Environment and Force Structure
	Sustaining Air Force Aging Aircraft into the 21st Century
	Sensor Data Exploitation
	Aircraft Oxygen Generation (Quick Look)
2010	Future of Launch Vehicle Systems for USAF
2010	Operating Next-Generation Remotely Piloted Aircraft for Irregular Warfare
	Next Generation Electronic Warfare
	Test Range Security
	Test Range Compatibility II (Quick Look)
	rest Range Compatibility II (Quick Look)
2009	Virtual Training Technologies
	Rapid On-Orbit Checkout of Space Systems
	Alternative Sources of Energy for U.S. Air Force Bases
	Test Range Compatibility (Quick Look)
2008	Defending and Operating in a Contested Cyber Domain
	Kinetic Precision Effects
	Implications of Spectrum Management for the Air Force
	Airborne Tactical Laser Feasibility for Gunship Operations
2007	Implications of Cyber Warfare
	Operational Utility of Small Satellites

	Theater Ballistic Missile Assessment
	Use and Sustainment of Composites in Aircraft
	Aircraft Operation in GPS-Jammed Environments (Quick Look)
	Thermal Management Technology Solutions
2006	Air Defense Against Unmanned Aerial Vehicles (UAVs)
	Space Survivability
	System-Level Experimentation
	Technology Options for Improved Air Vehicle Fuel Efficiency
2005	Academic Audit of AFIT Programs in Systems Engineering (Quick Look)
2003	Automatic Target Recognition (Quick Look)
	Air Force Operations in Urban Environments
	Domain Integration
	System-of-Systems Engineering for Air Force Capability Development (Quick Look)
	Persistence at "Near Space" Altitudes (Quick Look)
	resistence at Near Space Attitudes (Quick Look)
2004	Networking to Enable Coalition Operations
	Operationalizing Space Launch
	Military Applications of High Power Microwaves (Quick Look)
	Human-System Integration in Air Force Weapon Systems Development and Acquisition (Quick Look)
2003	Unmanned Aerial Vehicles in Perspective: Effects, Capabilities, and Technologies
	CONOPS and Technology to Support Long-Range Strike Operations
	Technology for Machine-to-Machine Intelligence, Surveillance, and Reconnaissance Integration
	SAB Introspective (Quick Look)
0000	Drawlistina Dattleaness Avversesse to Improve Military Effective need
2002	Predictive Battlespace Awareness to Improve Military Effectiveness Immediate Attack Deep in Hostile Territory
	Task Force on the Threat of Asymmetric Attack
	Assessment of AFRL Space Capability Protection Study (Quick Look)
	Assessment of AFAL Space Capability Frotection Study (Quick Look)
2001	Sensor Technologies for Difficult Targets
	Availability & Survivability of Military Relevant Commercial Space Systems
	Database Migration for Command & Control
2000	Air Force Command and Control: The Path Ahead
	Science & Technology and the Air Force Vision: Achieving a More Effective S&T Program
	Why and Whither Hypersonics Research in the US Air Force
	USAF Battlelabs (Quick Look)
	Electronic Combat Integrated Test (Quick Look)
1999	Tech Opts to Leverage Aerospace Power in Other than Conventional War
. 555	Building Joint Battlespace InfoSphere
	Ensuring Successful Implementation Of Commercial Items In Air Force Systems
	Spectrum Management
4000	Space Deadman for the 24st Centum, Agreeness Fares
1998	Space Roadmap for the 21st Century Aerospace Force Information Management to Support the Warrior
	Airborne Laser Scenarios and Concepts
	Airborne Laser Scenarios and Concepts Airborne Laser Propagation
	Holloman High Speed Test Track
105=	
1997	USAF Expeditionary Forces Review of the Air Force Test & Evaluation Infrastructure
	Global Air Navigation System Wy Monitoring & Foregast
	Wx Monitoring & Forecast NAVWAR
	Joint Modeling & Simulation System
	Some wisdoming a Simulation System

1006	UAV Tech and Combat Operations
1990	Managing the Trans to the Air Force of the 21st Century
	Vision of Aerospace Command & Control for the 21st Century
	Space Based Lasers & Airborne Lasers COEAs
	Low Obs Strat Vision Assessment
	Air Force Response to an Environmental Situation
1995	New World Vistas
	Space Launch
	Space Surveillance, Asteroids & Comets & Space Debris
1994	Technical Feasibility of C-141 Service Life Extension Program
	Information Architectures that Enhance Operational Capability in Peacetime and Wartime
	Joint Modeling and Simulation Systems
	Life Extension and Mission Enhancement for Air Force Aircraft
	Options for Theater Air Defense
1993	Aircraft Self-Defense Against Infra-Red Missiles
	Global Positioning System Survivability and Denial
1992	Alternative Strategies for Software & Computer Processor Upgrades to Software Intensive Aircraft
	Extension of Dormant Munitions Storage Life & Insensitive High Explosive
	Offboard Sensors to Support Air Combat Operations
	Hypersonic Air-Breathing Vehicle Technologies
	Air Force Aircraft Jet Engine Manufacturing & Production Process
	Directed-Energy Weapons for Delay & Denial Security Systems
	Concepts and Technologies to Support Global Reach-Power
	Concepts and Teermologies to Support Global Neach Tower
1991	Space Power Technology
	Aerospace Applications of Superconductivity
	Modeling & Simulation
1000	Air-to-Surface Conventional Munitions
1990	Electronic Combat
	Munitions Warhead Effectiveness
	Post Deployment Software Support
	Technology Options for Defeating Enemy Air Defenses
1989	Requirements for Hypersonic Test Facilities
	High Energy Density Matter and Antiproton Technology
	Hypervelocity Gun Technology with Emphasis on the Ram Accelerator
	Damage Tolerance Assessment
	Aircraft Infrastructure - Subsystem and Component Reliability Improvement R&D Needs "F-A-C-T-S"
	Medical Aspects of the Integration of Female Pilots Into U-2/TR-1 Aircraft
1000	Integrated Avianias
1300	Integrated Avionics
1987	Space Technology
	Solar Flare Hazards to Man-In-Space
	Monitoring Underground Nuclear Testing in the Late 1900s
	Reliability, Maintainability, and Logistics
	Minuteman III Penetration Aids
	Biotechnology Readiness for Man-In-Space
	Diotectifiology Readifiess for Mati-III-space
	Space-Based Radar
	Space-Based Radar Airships
	Space-Based Radar

	Anti-Tactical Air Communications
1026	Enhanced Non-Nuclear Munition Storage
1300	Slide Presentation on ASAT
	Air Force Current and Long-Term Response to Hazardous Material/Waste Issues
1985	Large Rocket Test Facility
	Assessment of Air Force Hazardous Materials and Toxic Waste Management
	High Altitude Electromagnetic Pulse
	Enhancement of Special Operations Force
	Transatmospheric Vehicle/Military Aerospace Platform
	High Power Microwave Systems
	Terminal Guidance Technology Options
	Space Debris
1984	Development of Prophylactic/Antidote Drugs for Use Against Chemical Agents
	Feasibility of AFLC's Network Architecture
	Future Strategic Reconnaissance Technologies
	Future Environmental Support Requirements for USAF Environmental Technical Applications Center
	, , , , , , , , , , , , , , , , , , , ,
1983	Letter Report on EF-111A Capability Upgrade
	Approaches to Space-Based Missile-Warning Systems
	Laser Weapons for Space Applications
	Advanced Tactical Fighter Technologies
	The Small Missile
	Dispersion of Denser-Than-Air-Gases
	Engineering and Services Role in the Employment of Air Power
1982	Turbine Engine Monitoring Systems Including Comments About Reliability Centered Maintenance of Engines
	The Effects of Lemmins on the Occurrencies than Links Head in Tratical Air Occurring
	The Effects of Jamming on the Communication Links Used in Tactical Air Operations
	C3 Aspects of Closely Spaced Basing for the M-X
	Application of Advanced Electronics to Air Force Systems
	Modeling Techniques to Predict the Impact of Chemical Warfare Agents
	The Enhancement of Airlift in Force Projection
1981	Cruise Missile Advanced Propulsion
	Traveling Wave Tube Amplifiers
	Non-Nuclear Armament
	Potential New Methods of Detection and Identification of Chemical Warfare Agents
	Alternative Radar System
	The Madrid Fladar System
1980	Logistics Technology and Long-Range Planning
	Summer Study on SALT, Breakout, and Specific M-X Employment Variables
	Special Report on Turbine Engine Monitoring Systems
	C-5A Wing Modification Fatigue Test Program
	Long-Range Combat Aircraft
	USAF Manufacturing Technology Program
	Automatic Test Equipment
1070	Report of Joint SAB/NRAC Engine Comparison Study Review
. 51 5	Applications of Heavy Lift Air Vehicles
	Wide-Area Anti-Armor Munitions
	Human Resources Laboratory Mini Remotely Bilated Vehicles
	Mini-Remotely Piloted Vehicles
	Improved Cloud Forecasting
	Turbine Engine Monitoring Systems
	Project Heart (Letter Report)
	Aeronautics Panel on the Cruise Missile (F107) Engine

	Long-Term Effects on Herbicides Containing 2,4,5-T and Associated
	AFLCS Long-Range Computer Systems Planning
	Proposed MK-12 Nosetip Retrofit
	Scientific and Engineering Manpower Shortfalls within the Air Force
	Aeronautics Panel Committee on C-5A Structural Information Enhancement Program
	Missile Basing Verification in SALT
978	Imaging Infrared Guidance
	Simulation Technology
	Defensive Chemical Systems
	Effects of a Comprehensive Test Ban
	Software Management in the Air Force
	Aeronautics Panel Subcommittee on Turbine Engine Monitoring System
	Aeronautics Panel Subcommittee on Aeropulsion Systems Test Facility
	SAB/ASB Joint Summer Study on Tactical Battlefield Systems
	Strategic Issues and the ICBM
077	Third Papert of the C 141 Independent Paview Team
911	Third Report of the C-141 Independent Review Team Aeronomy
	•
	B-1 Structures The Advanced ICRM Technology (M. V.) Program
	The Advanced ICBM Technology (M-X) Program
	B-1 Aerodynamics
	Avionics Acquisition
	Defensive Chemical Systems
	M-X Warhead/Reentry Vehicle Task
	Basic Research
	C-5A Structure Information
	Terminal Guidance Technology
	Aerospace Vehicles Panel
	C-141 Independent Review Team
	M-X Command and Control, and Communications
976	Gas Turbine Technology
	Turbine Engines
	TOA Signal Sorting and Processing Techniques
	Electronics Panel Review of DME Data Links
	B-1 Structures
	Cruise Missile Technology
	Advanced Composites Technology
	Ad Hoc Technical Assessment Committee On the B-1
	Tactical Electronic Warfare
	Information Processing Panel Review of the Air Force Multi-Level Security Program
	EF-111A
975	Meteorological Effects on Microwave Propagation
	Information Processing Panel On Machine Translation
	Committee On B-1 Structures
	C-141 Independent Review Team
	Electro-Optics Technology
	C-141 Independent Review Team Second Interim Report
	Electronics Panel on Prioritization of Electron Device Technology
	Location, Identification, and Destruction of Surface Targets by Tactical Air Force Under Adverse Weather Conditions
074	Air Force Human Decourage Laboratory
9/4	Air Force Human Resources Laboratory
	Disposal of Herbicide Orange
	Laser Technology
	Geophysics Panel Task Group on Tropical Cyclone Forecasts
	Electro-Magnetic Pulse Vulnerability of USAF Manned Systems

	Aerospace Vehicles Panel Review of the High Reynolds Number Tunnel
	Consultation Group on Community College of the Air Force
	Committee On B-1 Structures
	Committee On B-1 Aerodynamics
	Future Air Force Energy Needs- Fuels and Systems
	Guidance and Control Panel Review of Aircraft Inertial Systems
1973	Clinical Investigation Progress In the Air Force
	Cardiovascular Disease Follow-Up Study
	Air Force Simulation Needs
	Committee On B-1 Structures
	Tactical Warning and Attack Assessment
	Letter Report to DCS/R&D From SAB Ad Hoc Committee on Laser Technology
	C-5 Advisory Group
	Committee On B-1 Aerodynamics
	Munitions-Armament Panel Review of Selected Technical Aspects of Tactical Nuclear Warfare
	On-Board Test and Recording System
	Engine Development
	Remotely Piloted Vehicles
	Aeromed-Biosciences Panel Review of USAF Overall Health Program
	Special Report on the B-1 Program
	Guidance and Control Panel All-Weather Terminal Guidance Review
	Interim Report of the Aerospace Vehicles Panel on Test Facilities - High Reynolds Number Tunnel
	Special Report of the Electronics Panel on Review of the USAD Electronic Warfare Program
1972	Close Air Support Gun System
	Tactical Warning and Attack Assessment
	Review of the USAF Current Countermeasures
	Consulting Group Review on Nuclear Magnetic Resonance Gyroscope
	Report of the Applications Subcommittee of the Ad Hoc Committee on Laser Technology
	J79 Engine Smoke Reduction Committee Report
	Remote Meteorological Sensing Techniques
	Air Force Meteorology and Calibration Program
	The Air Force and Space
	Electronics Panel Informational Briefing
	B-1 Structure
	Nuclear Panel
1971	Human Resources Laboratory
-	Space Defense
	Biological Effects of Microwaves
	RADC's Associate Processor Computing System
	Kill Criteria for Nuclear Weapons
	Lightning Warning Devices
	Warm Fog Dissipation
	Lessons Learned from the F111 Structural Experience
	Aircraft Technology
	Evaluation of Clinical Research Needs in the Air Force
	Advanced Composites
4070	Coophysical Effects on Inertial Instruments
19/0	Geophysical Effects on Inertial Instruments
	Minuteman Operational Based Launches
	Reconciling Test & Operational Results
	Aerospace Medical Division Technical Plan
	Report on Integrated Communication, Navigation and Identification
	F-111 (5th Incremental Report)
	Propulsion Panel Report
	Air Force Sponsored Foreign Research Hard Target Reentry Vehicle

	C-5A
	Maverick Guidance Subsystem
	Advanced Logistic System
	Air Force Response to Section 203 of the FY70 Military Procurement Authorization Act
	Air Force Support of Research
	Air Defense (Vol. I, II, & III)
1969	Ionospheric Research
	Air Force-University Relationships
	The Development of a Radiation Handbook for Operations & Planning for Manned Space Flight
	Ad Hoc Committee on the F-111
	Electronics Panel On Air-To-Air Radar Look-Down
	High Altitude Fuse
1968	Geodesy And Target Location for ICBMs
	V/STOL Technology
	Aerospace Vehicles Panel
	Filamentary Composites
	Evaluation of Dynamic Penetration Aids Simulator for Ballistic System
	AFSC Red/Blue Team Activities in the Electronic Warfare Area
	New Approaches to Undergraduate Pilot Training Warfare
	Infiltration Interdiction
	Loran Condition Instrumentation and Mathedalague
	Geodetic Instrumentation and Methodology
	Minuteman Operational Based Launches
	Ionospheric Research
	Nuclear Panel on Minuteman Launches from Operational Sites
1967	Ad Hoc Committee on Weapon Retrieval
	Assessment of Measured Minuteman Accuracy
	MAC/ESD Study on Command Automation
	Space Techniques
	Air Force Procedures in Support of Sea Operations
	Estimation of WS-120A Weapon System Accuracy
	Report of the Information Processing Panel of Air Force Career Needs in Information Processing
	Psychology and social Sciences Panel Study Entitles "Air Force Personnel and Training Research and Development"
	Ballistic Missile Defense Critique Committee
1066	Technical Aspects of Nuclear Test Ban Proposals
1300	Dosimetric Calculations
	Project Blue Book Special Report
	<u> </u>
	Report of the Geophysics Panel on Soil Stabilization
	Report of the Electronic Panel on Radio Communications
	Air-to-Air IFF
	Report of the Aerospace Vehicles Panel
	Weapon Retrieval
	Mountain Busting
	Remote Sensing
	Avionics Reliability
1965	Optics Education
	Aris Instrumentation
	Airbreathing Propulsions
	Nuclear Panel Report on Minuteman Penetration Aids
1964	Memo of Geophysics Panel on Air Force Solar Observation
.554	Memo Report on Digital Computer Education
	Report on Reconnaissance/Intel in Counterinsurgency

	Report of the Nuclear Panel on Orion/Helios
	Report of Guidance & Control Panel on Inertial Guidance Development and Testing
	Report of the Nuclear Panel on Multiple Warheads
	Report of the Guidance & Control Panel on Guidance Error Analysis Vehicle
	Boron Research
	Hypersonic Wind Tunnel (TRIPLTEE)
	Report of the Guidance & Control Panel on MIRV
	Engineering Geology
1963	Report of the Information Processing Panel
	Space Radiation Effects
	Titan III Guidance
	Memo/Indo Processing on Digital Computer Requirements at AFA
	Review of Arctic Research
	Report of Nuclear Panel on overland Airborne Radar
	Memo/Report of Aerospace Vehicles Panel and Prop Panel on Aerospaceplane
	Report of Guidance & Control Panel on Target Signatures
	Report of the Nuclear Panel on Air Force Nuclear Weapons Effects Under Treaty
1962	Mathematical Biological Models
1002	Report of the Open Ear Panel
	Electronic Warfare Program
	In-House Labs
	Arms Control Problems
	Aerospaceplane
	XB-70 Lift to Drag Ratio
	Space Related Applied Research
	Air Force Space Program
	Report of the Nuclear Panel on Project Orion
	Nuclear Technology
	USAF Bioinstruments and Radiobiology
	Report on Strategic Concepts
	Mechanical Translation of Languages
1961	Life Science Program
	ARDC Wind Tunnel Facility
	Project Orion
	Bioinstrumentation
	Human Factors
	Radiation Weapon Program
	Air Force Utilization of Scientific Resources
	Space Surveillance
	USSR/NASA Bioastro Program
	Penetration Aids for Ballistic Missiles
	New Small Weapons Program
	Disarmament Implications
	Advanced Ballistic Missile Concepts
	USSR Atomic Weapons
	Manned Space Program
	Military Applications of Ionosphere Modernization
	Nuclear Panel on Weapons Fabrication
	Air Force Structures Applied Research
	Aerospaceplane
	Sacramento Peak Solar Observation
1960	Report of Aerospace Vehicles Panel on Dynasoar
	Joint Meeting W/USAF Surgeon General Medical Research Council
	Dynasoar Phase A Review
	Report of the Geophysics Panel on arctic research

	Cuidanas & Cantral Danal on Tarminal Cuidanas (Marsa)
	Guidance & Control Panel on Terminal Guidance (Memo)
	Sensors for Space Surveillance
	Guidance & Control Panel on Minuteman Guidance System (Memo)
	Aerospace Vehicles Panel on Dynasoar (Memo)
	Energy Conservation for Space
	Summary Report of Space Technology Panel
	Nuclear Panel Report on Underground and Space Testing of Nuclear Weapons
1959	Air Defense Systems
	Nuclear Weapon Design Under a Test Moratorium
	Limited War
	Recommendations by Space Technology Panel
	Report on ANP
	Report of Geophysics Panel on Advanced Airborne Weather
	Infrared Countermeasures B-70
	Report of Nuclear Panel on Lethal Radius of Nuclear Weapons/Ballistic Missile
	Radiation Facility
	Report on Structural Fatigue
	Evaluate Radio-Biology of the USAF
	Nuclear Testing
	Report of Reconnaissance Panel on Needs in Reconnaissance Area
	Report on US Propulsion Program
	Report on Future Weapons
	Troport on Falaro Weapons
1958	Report on WS 1117-P Progress
1000	Report on High Altitude Testing
	Improving Air Force Capabilities Under the Test Moratorium
	Report of Guidance & Control Panel on Ballistic Missile Guidance
	Nuclear Panel Report on Warheads For Missiles
4057	Advanced Managed Intercentor Fielder
1957	Advanced Manned Interceptor Fighter
	Report on Human Factor Engineering
	Nuclear Panel Report on Weapons Kill in Air Defense
	Report of Nuclear Panel on Future Nuclear Weapons
	Future Production of Fissile Material
	Report on Base Hardening
	Report of Tell Ad Hoc Committee
	Use of Substitute Warhead
1956	Reconnaissance From Satellite Vehicles
	Report on MB-1 Rocket Follow-On
	Ballistic Missile Defense Report
	Report on Nuclear Panel on USAF Aircraft Nuclear Propulsion Program
	Report of Explosives & Armament Panel on Lead Collision Fire Control System
	Report of the Nuclear Panel on Plutonium Contamination Hazards
	Report of the Nuclear Panel on High Altitude Weapons Effects
	Report on Fuels & Propulsion
1955	Report of Aircraft Panel on Successor to B-52 Weapons System
1000	Report of Aircraft Panel on Boundary Layer Control
	Report of Nuclear Panel on Tactical Uses of Atomic Weapons
	Nuclear Panel on Ding Dong Program
	- · · · · · · · · · · · · · · · · · · ·
1954	First Step in Using Artificial Satellites
	Nuclear Missile Propulsion
	Preliminary Reports of Panels On New Horizons
1052	Explosive and Armament Report
1332	Infrared Research and Development Program
	minarea Nesearan ana Developinieni r rogram

	Report of Electronics Countermeasures Committee
	Report of the Aircraft Panel
	Mission to European Research Lab
	Project Atlas
	Report of the Geophysical Research Panel
	Report of the Aeromedical Panel
1951	Report of Explosives & Armament Panel R. Kent
	USAF Armament Activities
	Special Working Group Report L Ridenour
	Report of Aircraft Panel on Strategic Bombing System L. Root
	Report of Fuels and Propulsion Panel
	Joint Turbo Prop Report
1950	Explosives and Armament Panel R Kent
	Fuels and Propulsion Panel
	Special Committee on AEDC Operations
	Progress Reports on the Air Defense Systems Engineering Committee
	Recommendations of Air Force Guided Missiles Program
	Medical R&D In the USAF W. R. Lovelace
	Electronic & Control System Proposals for 1954 Intercept G Valley
1945	Report of Conference on Censorship of Jet Propulsion Material

(last updated 27-Feb-18)